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DERWENT-ACC-

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TITLE:

Method for manufacturing capacitor using atomic layer

deposition

INVENTOR: LEE, JW

PATENT-ASSIGNEE: HYNIX SEMICONDUCTOR INC[HYNIN]

PRIORITY-DATA: 2000KR-0076627 (December 14, 2000)

**PATENT-FAMILY:** 

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ABSTRACTED-PUB-NO: KR2002046433A

**BASIC-ABSTRACT:** 

NOVELTY - A fabrication method of a <u>capacitor</u> is provided to improve quality and electrical properties by using an ALD(Atomic Layer Deposition) and an ammonia plasma treatment.

DETAILED DESCRIPTION - A lower electrode(21) and a partier metal(22) are sequentially formed on a semiconductor substrate(20). A TaON dielectric film(23) is then formed on the partier metal. A TiN upper electrode(24) is formed on the TaON dielectric film(23) by an and using TiCl4 as a source gas. The surface of the TaN upper electrode(24) is performed by NH3 plasma treatment so as to remove CI radicals.

CHOSEN-

Dwg.1/10

**DRAWING:** 

TITLE-TERMS:

METHOD MANUFACTURE CAPACITOR ATOMIC LAYER

**DEPOSIT** 

**DERWENT-CLASS: L03 U11 U14** 

CPI-CODES: L03-G04A; L04-C11C2; L04-C12B; L04-C14A;

EPI-CODES: U11-C05G1B; U14-A03B4;

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